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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/705,570

11/10/2003

Daniel G. Giddings

TC408/410 CIP

4241

(24,954-122)

7590

11/27/2006

EXAMINER

HECKERT, JASON MARK

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ART UNIT

PAPER NUMBER

1746

DATE MAILED: 11/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/705,570	Applicant(s) GIDDINGS ET AL.	
	Examiner Jason Heckert	Art Unit 1746	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 October 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>8/29/2005</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed on October 24th, 2006 have been fully considered but they are not persuasive. In response to the argument of Remark II that Besel does not disclose extracting some soiled solution before wiping the surface to be cleaned, Besel's device does include such step. After delivering some cleaning fluid from nozzle 82 to rotating belts 134, a certain amount of fluid will be extracted, due to the rotational and gravitational forces exerted on the fluid, before belt 134 wipes the surface to be cleaned. Furthermore, as Besel discloses a continuous process, the steps can be viewed as happening all at once or in any order, as different portions of the cleaning belt are undergoing different functions at any given time. For example, a certain portion of belt 132 will be wetted then another portion will undergo vacuum extraction and finally a third portion will then come into contact with the surface to be cleaned.
2. In regards to Remark III and IV, Besel's device does include such an extraction step before the wiping step, as explained above in paragraph 2.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

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4. Claims 1-13, 15-17, 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Besel. Besel discloses a movable machine performing a method of cleaning wherein the machine continuously wets a revolving belt 134 by spraying cleaning agent from nozzle 82. Due to gravitation and rotational forces exerted on the cleaning fluid, a certain amount of soil and fluid will be extracted from the belt before coming in contact with the surface to be cleaned. The revolving belt then cleans a surface, specifically carpet. More material can be extracted from the belt via a vacuum through suction shroud 36 (col. 9 line 39-41). Considering Besel discloses a continuous process, the steps can be viewed as happening all at once or in any order, as different portions of the cleaning belt are undergoing different functions at any given time. The revolving cleaning mediums include rotatable cylindrical elements 76F, 76r, and 116. In Fig. 9, multiple pairs of cylindrical elements are shown for each belt, wherein the elements for the left belt rotate in the opposite direction than that of the right belt. Each cylindrical element has an axis of rotation parallel to the surface being cleaned, as depicted by the arrows in Fig. 9, and transverse to the operational direction of the device. Furthermore, in the same figure, Besel discloses a pair of suction shrouds, each associated with a different cleaning medium. Considering that cleaning fabric requires no structural modifications, Besel's device is capable of performing the same method of function. Besel discloses that a reservoir is included to supply a cleaning agent (col. 5 line 1) and that a reservoir to collect spent liquid can be placed in a similar location of the device (col. 11 line 56). Besel states that the machine can be self-propelled (col. 11 line 40)

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 18-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Besel in view of Marcussen et al. Besel discloses cleaning mediums that include cylindrical elements to assist in rotation, but does not disclose the medium itself as being cylindrical. Marcussen discloses a cleaning device with twin cleaning mediums 32 and 34 that are both cylindrical. It would have been obvious to one skilled in the art to modify Besel to include said cylindrical cleaning mediums, as they are a structural alternative that provides an equivalent function to that of the cleaning medium that Besel discloses.

7. Claims 14, 21, 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Besel in view of Miner et al. While Besel does disclose many of the features of the claimed invention, as described above, he does not disclose a structurally equivalent drip guard to that of the claimed invention. However, the use of a drip guard is not novel as it is commonly used throughout the art to prevent dirty fluid from falling back down on a cleaned surface. Miner et al. discloses a brush guard 466 capable of such function. It would have been obvious to modify Besel, as taught by Miner et al, to include a drip guard to prevent the combination of dirt and used agents from falling back down onto a cleaned surface.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

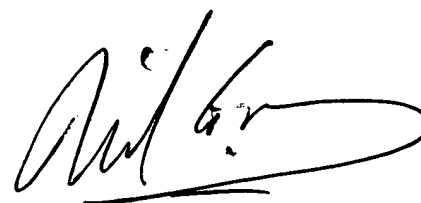
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Heckert whose telephone number is (571) 272-2702. The examiner can normally be reached on Mon. to Friday, 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571)272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JMH

A handwritten signature in black ink, appearing to read "Michael Barr", with a large, sweeping loop at the end.

**MICHAEL BARR
SUPERVISORY PATENT EXAMINER**